

O/PE

CRF Problem Report

The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: 09/915,181
Filing Date: 7/24/2001
Date Processed by STIC: 1/26/2002

STIC Contact: Mark Spencer, 703-308-4212

Nature of Problem:

The CRF (was):

- (circle one) Damaged or Unreadable (for Unreadable, see attached)
 Blank (no files on CRF) (see attached)
 Empty file (filename present, but no bytes in file) (see attached)
 Virus-infected. Virus name: _____ The STIC will not process the CRF.
 Not saved in ASCII text
 Sequence Listing was embedded in the file. According to Sequence Rules,
submitted file should **only** be the Sequence Listing.
 Did not contain a Sequence Listing. (see attached sample)
 Other: _____

**PLEASE USE THE CHECKER VERSION 3.1 PROGRAM TO REDUCE ERRORS.
SEE BELOW FOR ADDRESS:**

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

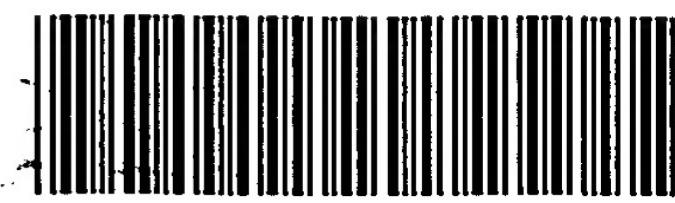
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

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2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 01/29/2002

0590
0405

#9



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002
TIME: 15:33:00

Input Set : A:\305-932610US.txt
Output Set: N:\CRF3\04082002\I915181A.raw

3 <110> APPLICANT: EDWARDS, ROBERT
 4 BELLOCCHIO, ELIZABETH
 5 FREMEAUX, ROBERT
 6 REIMER, RICHARD
 8 <120> TITLE OF INVENTION: NOVEL GLUTAMATE TRANSPORTERS
 10 <130> FILE REFERENCE: 305T-932610US
 12 <140> CURRENT APPLICATION NUMBER: US 09/915,181A
 C--> 13 <141> CURRENT FILING DATE: 2002-03-26
 15 <150> PRIOR APPLICATION NUMBER: US 60/220,556
 16 <151> PRIOR FILING DATE: 2000-07-25
 18 <160> NUMBER OF SEQ ID NOS: 11
 20 <170> SOFTWARE: PatentIn version 3.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 2607
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
 27 <220> FEATURE:
 28 <221> NAME/KEY: misc_feature
 29 <223> OTHER INFORMATION: n is a, g, c, or t
 32 <400> SEQUENCE: 1

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37	caaagaaaaac tcgatggac caacgaggag ggagatgccat ttgagctgag tgaggaagga	180
39	aggcctgtgc agacatccag agcccgagcc cctgtgtcg actgcagctg ctgtggcatc	240
41	cccaagcggt acatcatcgat tgtcatgagt ggcttggat tctgcatttc ctttggatt	300
43	cggtgcaacc ttggagtggc cattgtggaa atggtaaca atagcactgt gtatgtggat	360
45	gggaaaccgg aaatccagac agcacagttt aactggatc cagagacggt gggaaaggcg	420
47	aattctctta tccatggatc tttttctgg ggttatattt tgacacaaat tcccggtggc	480
49	ttcatttcaa acaagtttgc tgctaacagg gtctttggag ctgccatctt cttgacgtca	540
51	accctgaaca tgttcatccc ttccgcggcc agggtcattt acggctgtgt catgtgtgt	600
53	aggattttgc aggtctggt ggagggtgtg acctaccatc cctgccacgg gatgtggagt	660
55	aagtggcac ctcccctgga gagaagtctt cttagccacaa cctcttttggatggccat	720
57	gccggggcag tcgttgcattt gccccttgcg ggagtattgg tgcagtacat tggctggcc	780
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63	gagacaagta taggagaagg cgccaaacttgc gccagtctga gcaaattcaa cacaccatgg	960
65	agaaggtttt tcacatcctt gcctgtctat gcccatttttggatggcaactt ttgtagaagc	1020
67	tggaccttctt atttgctttt aataagtcaat cctgcttact ttgaagaggtt ctgtttttt	1080
69	gcaataagta aggtgggtctt cttgtcagctt gtcacacaat tggatgtac aatcggtt	1140
71	cccattggag gacaactggc tgattatttta agaagccaa agattttgac cacaactgt	1200
73	gtcagaaaga tcatgaatttgc tggaggctt ggcatggagg caaccttgc cctgggtt	1260
75	gggtttccc ataccaaagg agtggctatc tccttcctgg tgcttgcgtt aggatttagt	1320
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ENTERED

P.6

RAW SEQUENCE LISTING

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Input Set : A:\305-932610US.txt

Output Set: N:\CRF3\04082002\I915181A.raw

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 83 gccctgggtgc actacagtgg agtcatcttc tacgggtct ttgcttctgg ggaaaaaacag 1560
 85 gactgggctg atccagagaa tctctctgag gagaatgtg gaatcattga ccaagatgaa 1620
 87 ttagccgagg aaacagaact caaccacgg gcttcgtaa gtcccagaaaa gaagatgtct 1680
 89 tatggagcca ccacccagaa ttgtgaggc cagaagacgg atcggagaca acagagagaa 1740
 91 tccgccttcg agggggagga gccattatcc taccagaatg aagaggactt ttcaattaa 1800
 93 tcttaacgtg catctcccc tcagttaca accagaagtc tccacaccca ttgctttcc 1860
 95 cataccttgg ccttccaggg ggccaaatca cagggaaagg ggagactaaa tcaacaacag 1920
 97 agaagaaaaaa tgccttcta caaagatggg cgtatggatc ttgtctcag ttaatttagat 1980
 99 agttgatcat atttttttg gggggggcaa ttggcattt gctgttgagc cttctctcaa 2040
 101 aagaacaatt tattcaggaa gaaatggcta gaagaataag gagttggctt ttgctcaaatt 2100
 103 aaacactgaa gaaatccctc ttttgttgc agaagagtac atgggtggttt ccaccccatc 2160
 105 tccaaggata tccatgtaga ggacaatctc tgcaacctaa tgaaggaaat cactcatggg 2220
 107 ggcccttgggt tgcgttgcagg gctttatgaa cattttttaactcccac accctaataat 2280
 109 agttatttta cccattttac aactaagaac attaaatgac tagttggcc cacccaaagg 2340
 111 tgcctctca gagccaaagc tgagactggc agatgaccag gagtttttagg aaggaaggaa 2400
 113 ggaaggaagg aaggaaggaa ggaaggaagg aaggaaggaa ggaagggttc agttgagtgt 2460
 115 agggtcattt tcaatgacaa aaacaaaaac tggaaatcgt tggtttgcgtt gtaattccat 2520
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122 <210> SEQ ID NO: 2

123 <211> LENGTH: 2607

124 <212> TYPE: DNA

125 <213> ORGANISM: Homo sapiens

127 <220> FEATURE:

128 <221> NAME/KEY: misc_feature

129 <223> OTHER INFORMATION: n is a, c, g, or t

132 <400> SEQUENCE: 2

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 137 gtttcttttgc agtaccctg gttgctcctc cctctacggt aactcgactc actccttcct 180
 139 tccggacacg tctgttaggtc tcgggctcgg ggacacacgc tgacgtcgac gacaccgttag 240
 141 gggttcgcca ttagtgcgtt acgtactca ccggacccta agacgtaaag gaaaccctaa 300
 143 gccacgttgg aacccatcccg gtaacacccctt taccagggtt tattgtgaca catacacccctt 360
 145 ccctttggcc tttaggtctg tctgtcaaa ttgaccctt gtctctgcca cccttcccg 420
 147 ttaagagaat aggtacccat aaaaaagacc ccaatataac actgtgttta agggccaccg 480
 149 aagtaaaggat ttttcaaacg acgattgtcc cagaaacccctc gacggtagaa gaactgcagt 540
 151 tggacttgtt acaagtaggg aaggcgccgg tcccacgtaa tgccgacaca gtacacacac 600
 153 tcctaaaacg tcccacgtt cctccacac tggatgggtc ggacgggtcc ctacacccctt 660
 155 ttccacccgtt gaggggaccc tctttcagca gatcggtgtt ggagaaaaac accaaggata 720
 157 cggccccgtt agcaacgata cggggAACGT cctcataacc acgtcatgtt accgaccgg 780
 159 agacggaaaaataaaatgcc ctacaaacct taataaaacca tgtacaaac cgacgacgac 840
 161 gtccgaatac tcacaggtcg tcaagtgggt ttttataggt tacttcttgc ctggatgtat 900
 163 ctctgttcat atcctcttcc gcgggttgcac cggtcagact cggttaagtt gtgtgttacc 960
 165 tcttccaaaa agttaggaa cggacagata cggtataaac accgtttgaa aacatcttcg 1020
 167 acctggaaataacgagaa ttattcagtc ggacgaatga aacttctcca gaaacccaaa 1080
 169 cgttattcat tccacccaga gaacagtcga cagggtgtgtt accactactg ttagcaccat 1140
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002
TIME: 15:33:00

Input Set : A:\305-932610US.txt
Output Set: N:\CRF3\04082002\I915181A.raw

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177	ccgaaacgtt	aaagtccaaa	gttacagtt	gtggacctgt	aacgaggtgc	tatacggtcg	1380										
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181	caaccacgtt	actgtttcgt	gttctggcc	cttcttaccg	tcttacacaa	ggagtatcgt	1500										
183	cgggaccacg	tgtatgtcacc	tcagtagaa	atgccccaga	aacgaagacc	cctttttgtc	1560										
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187	aatcggtcc	tttgtcttga	gttgggtgtc	cgaaagcatt	cagggtctt	cttctacaga	1680										
189	atacctcggt	ggtgggtctt	aacactccag	gtcttctgcc	tagcctctgt	tgtctctt	1740										
191	aggcggaagc	tccccctcct	cggtaatagg	atggtcttac	ttctcctgaa	aagtctttgt	1800										
193	agaattgcac	gtagaagggg	agtcaatgt	tggtcttcag	aggtgtgggt	aacgaaaagg	1860										
195	gtatggAAC	ggaagggtccc	ccggtttagt	gtccttccc	cctctgattt	agttgttgc	1920										
197	tcttctttt	acggaagaat	gtttctaccc	gcatacctag	aaccagagtc	aattaatcta	1980										
199	tcaacttagt	taaaaaaaac	cccccccg	aacccgtiac	cgacaactcg	gaagagagtt	2040										
201	ttcttgtaa	ataagtcctt	ctttaggat	cttcttattc	ctcacccgaa	aacgagttt	2100										
203	tttgtgactt	ctttagggag	aaaccagacc	tcttctcatg	taccaccaac	ggtgggttag	2160										
205	aggccttat	aggtacatct	cctgttagag	acgttggatt	actccctta	gtgagtagcc	2220										
207	ccgggaacca	acacggtcca	cgaataactt	gtaagaataa	attgagggtg	tggattata	2280										
209	tcaataacat	ggtaaaatg	ttgattctt	taatttactg	atccaaccgg	gtgggttcca	2340										
211	acaggagagt	ctcggtt	actctgaccg	tctactggc	ctcaaaatcc	ttccttcctt	2400										
213	cttccttcc	ttccttcctt	cttccttcc	ttccttcctt	cttcccaag	tcaactcaca	2460										
215	tcccagtaaa	agttactgtt	tttgttttg	accttagtca	accaaaccacc	cattaaggta	2520										
217	caaaccagt	cccacacacg	tacgtttgca	catacacgca	cacacacaca	aacacacaaa	2580										
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223	<211>	LENGTH:	850														
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232	Phe	Lys	Glu	Lys	Ile	Leu	Lys	Pro	Gly	Lys	Glu	Gly	Val	Lys	Asn	Ala	
233					20				25				30				
235	Val	Gly	Asp	Ser	Leu	Gly	Ile	Leu	Gln	Arg	Lys	Leu	Asp	Gly	Thr	Asn	
236					35				40				45				
238	Glu	Glu	Gly	Asp	Ala	Ile	Glu	Leu	Ser	Glu	Glu	Gly	Arg	Pro	Val	Gln	
239					50				55				60				
241	Thr	Ser	Arg	Ala	Arg	Ala	Pro	Val	Cys	Asp	Cys	Ser	Cys	Cys	Gly	Ile	
242					65				70				75				80
244	Pro	Lys	Arg	Tyr	Ile	Ile	Ala	Val	Met	Ser	Gly	Leu	Gly	Phe	Cys	Ile	
245					85				90				95				
247	Ser	Phe	Gly	Ile	Arg	Cys	Asn	Leu	Gly	Val	Ala	Ile	Val	Glu	Met	Val	
248					100				105				110				
250	Asn	Asn	Ser	Thr	Val	Tyr	Val	Asp	Gly	Lys	Pro	Glu	Ile	Gln	Thr	Ala	
251					115				120				125				
253	Gln	Phe	Asn	Trp	Asp	Pro	Glu	Thr	Val	Gly	Arg	Ala	Asn	Ser	Leu	Ile	
254					130				135				140				
256	His	Gly	Ser	Phe	Phe	Trp	Gly	Tyr	Ile	Val	Thr	Gln	Ile	Pro	Gly	Gly	
257					145				150				155				160

RAW SEQUENCE LISTING

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DATE: 04/08/2002

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Input Set : A:\305-932610US.txt

Output Set: N:\CRF3\04082002\I915181A.raw

259 Phe Ile Ser Asn Lys Phe Ala Ala Asn Arg Val Phe Gly Ala Ala Ile
 260 165 170 175
 262 Phe Leu Thr Ser Thr Leu Asn Met Phe Ile Pro Ser Ala Ala Arg Val
 263 180 185 190
 265 His Tyr Gly Cys Val Met Cys Val Arg Ile Leu Gln Gly Leu Val Glu
 266 195 200 205
 268 Gly Val Thr Tyr Pro Ala Cys His Gly Met Trp Ser Lys Trp Ala Pro
 269 210 215 220
 271 Pro Leu Glu Arg Ser Arg Leu Ala Thr Thr Ser Phe Cys Gly Ser Tyr
 272 225 230 235 240
 274 Ala Gly Ala Val Val Ala Met Pro Leu Ala Gly Val Leu Val Gln Tyr
 275 245 250 255
 277 Ile Gly Trp Ala Ser Ala Phe Tyr Ile Tyr Gly Met Phe Gly Ile Ile
 278 260 265 270
 280 Trp Tyr Met Phe Trp Leu Leu Gln Ala Tyr Glu Cys Pro Ala Val
 281 275 280 285
 283 His Pro Thr Ile Ser Asn Glu Glu Arg Thr Tyr Ile Glu Thr Ser Ile
 284 290 295 300
 286 Gly Glu Gly Ala Asn Leu Ala Ser Leu Ser Lys Phe Asn Thr Pro Trp
 287 305 310 315 320
 289 Arg Arg Phe Phe Thr Ser Leu Pro Val Tyr Ala Ile Ile Val Ala Asn
 290 325 330 335
 292 Phe Cys Arg Ser Trp Thr Phe Tyr Leu Leu Ile Ser Gln Pro Ala
 293 340 345 350
 295 Tyr Phe Glu Glu Val Phe Gly Phe Ala Ile Ser Lys Val Gly Leu Leu
 296 355 360 365
 298 Ser Ala Val Pro His Met Val Met Thr Ile Val Val Pro Ile Gly Gly
 299 370 375 380
 301 Gln Leu Ala Asp Tyr Leu Arg Ser Arg Lys Ile Leu Thr Thr Thr Ala
 302 385 390 395 400
 304 Val Arg Lys Ile Met Asn Cys Gly Gly Phe Gly Met Glu Ala Thr Leu
 305 405 410 415
 307 Leu Leu Val Val Gly Phe Ser His Thr Lys Gly Val Ala Ile Ser Phe
 308 420 425 430
 310 Leu Val Leu Ala Val Gly Phe Ser Gly Phe Ala Ile Ser Gly Phe Asn
 311 435 440 445
 313 Val Asn His Leu Asp Ile Ala Pro Arg Tyr Ala Ser Ile Leu Met Gly
 314 450 455 460
 316 Ile Ser Asn Gly Val Gly Thr Leu Ser Gly Met Val Cys Pro Leu Ile
 317 465 470 475 480
 319 Val Gly Ala Met Thr Lys His Lys Thr Arg Glu Glu Trp Gln Asn Val
 320 485 490 495
 322 Phe Leu Ile Ala Ala Leu Val His Tyr Ser Gly Val Ile Phe Tyr Gly
 323 500 505 510
 325 Val Phe Ala Ser Gly Glu Lys Gln Asp Trp Ala Asp Pro Glu Asn Leu
 326 515 520 525
 328 Ser Glu Glu Lys Cys Gly Ile Ile Asp Gln Asp Glu Leu Ala Glu Glu
 329 530 535 540
 331 Thr Glu Leu Asn His Glu Ala Phe Val Ser Pro Arg Lys Lys Met Ser

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332	545	550	555	560
334	Tyr Gly Ala Thr Thr Gln Asn Cys Glu Val Gln Lys Thr Asp Arg Arg			
335	565	570	575	
337	Gln Gln Arg Glu Ser Ala Phe Glu Gly Glu Glu Pro Leu Ser Tyr Gln			
338	580	585	590	
340	Asn Glu Glu Asp Phe Ser Glu Thr Ser Arg Ala Ser Ser Pro Gln Leu			
341	595	600	605	
343	Thr Thr Arg Ser Leu His Thr His Cys Phe Ser His Thr Leu Ala Phe			
344	610	615	620	
346	Gln Gly Ala Lys Ser Gln Glu Arg Gly Arg Leu Asn Gln Gln Gln Arg			
347	625	630	635	640
349	Arg Lys Met Pro Ser Tyr Lys Asp Gly Arg Met Asp Leu Gly Leu Ser			
350	645	650	655	
352	Leu Asp Ser Ser Tyr Phe Phe Trp Gly Gly Gln Leu Gly Ile Gly Cys			
353	660	665	670	
355	Ala Phe Ser Gln Lys Asn Asn Leu Phe Arg Lys Lys Trp Leu Glu Glu			
356	675	680	685	
358	Gly Val Ala Cys Cys Ser Asn Lys His Arg Asn Pro Ser Leu Val Trp			
359	690	695	700	
361	Arg Arg Val His Gly Gly Cys His Pro Ile Ser Lys Asp Ile His Val			
362	705	710	715	720
364	Glu Asp Asn Leu Cys Asn Leu Met Lys Gly Ile Thr His Gly Gly Pro			
365	725	730	735	
367	Trp Leu Cys Gln Val Leu Tyr Glu His Ser Tyr Leu Thr Pro Thr Pro			
368	740	745	750	
370	Tyr Ser Tyr Cys Thr His Phe Thr Thr Lys Asn Ile Lys Leu Gly Trp			
371	755	760	765	
373	Pro Thr Gln Gly Cys Pro Leu Arg Ala Lys Ala Glu Thr Gly Arg Pro			
374	770	775	780	
376	Gly Val Leu Gly Arg Lys Glu Gly Arg Lys Glu Gly Arg Lys Glu Gly			
377	785	790	795	800
379	Arg Lys Glu Gly Arg Lys Gly Ser Val Glu Cys Arg Val Ile Phe Asn			
380	805	810	815	
382	Asp Lys Asn Lys Asn Trp Asn Gln Leu Val Cys Gly Phe His Val Trp			
383	820	825	830	
385	Ser Arg Val Cys Ala Cys Lys Arg Val Cys Ala Cys Val Cys Val Cys			
386	835	840	845	
388	Val Phe			
389	850			
391	<210> SEQ ID NO: 4			
392	<211> LENGTH: 582			
393	<212> TYPE: PRT			
394	<213> ORGANISM: Rattus rattus			
396	<400> SEQUENCE: 4			
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399	1 5	10	15	
401	Lys Asn Phe Ala Gly Lys Ser Leu Gly Gln Ile Tyr Arg Val Leu Glu			
402	20	25	30	
404	Lys Lys Gln Asp Asn Arg Glu Thr Ile Glu Leu Thr Glu Asp Gly Lys			

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/915,181A

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Input Set : A:\305-932610US.txt
Output Set: N:\CRF3\04082002\I915181A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2582,2587,2590,2591,2592,2594,2597,2599,2602,2607
Seq#:2; N Pos. 2582,2587,2590,2591,2592,2594,2597,2599,2602,2607
Seq#:9; N Pos. 1,2,3,5,9,10,11,12,13,14

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,11